

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10649 - L2 Version 2
Chandra X-Ray Center

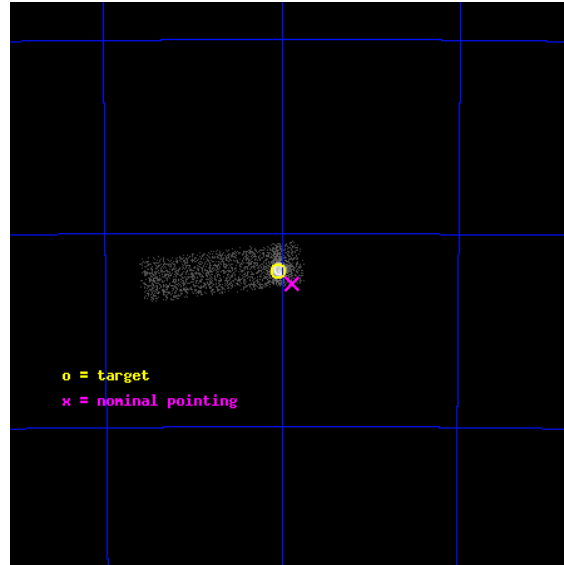
L2 Processing Date : May 28 2012

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1 Front

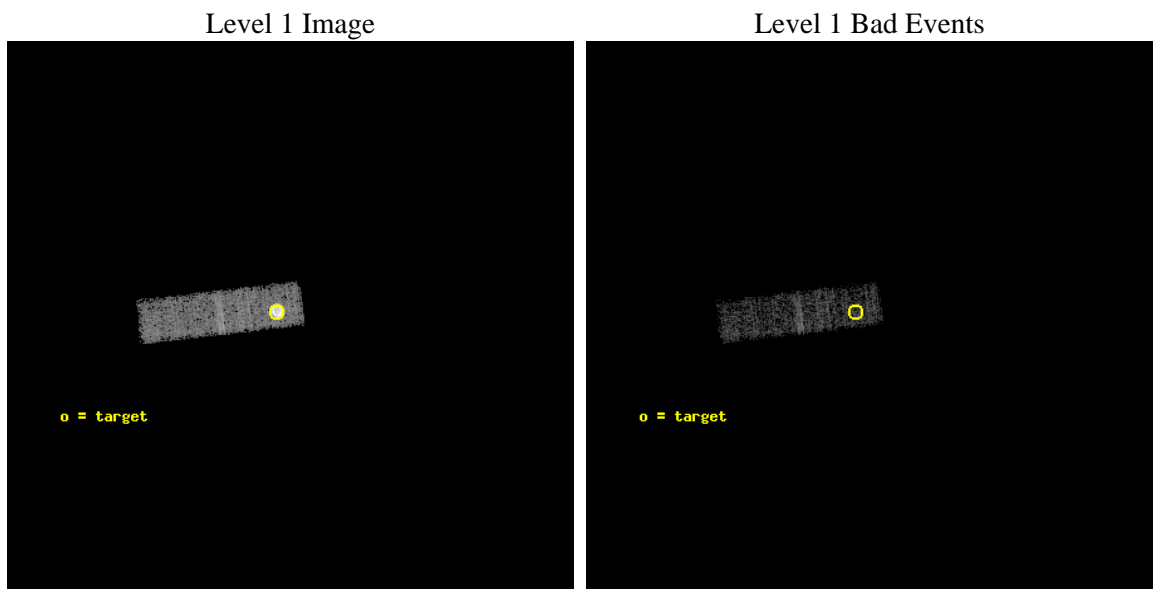
| | | |
|----------|--|---|
| seq_num | 590488 | Sequence number |
| obs_id | 10649 | Observation id |
| title | AO-10 Calibration Observations of E0102-72 | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | E0102-72[I3,-120,-0.5,0.5,0] | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 16.01 | Observer's specified target RA [deg] |
| dec_targ | -72.032028 | Observer's specified target Dec [deg] |
| ra_nom | 15.972688237142 | Nominal RA [deg] |
| dec_nom | -72.043548415954 | Nominal Dec [deg] |
| roll_nom | 263.50240222466 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 8028.800119698 | Sum of GTIs [s] |
| livetime | 7637.0209452089 | Livetime [s] |
| ontime3 | 8028.800119698 | Sum of GTIs [s] |
| l2events | 26147 | Number of level 2 events |



2 OBI

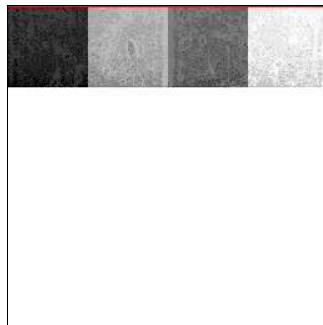
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 3



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 8000.519000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.4 | Processing system revision | ontime | 8028.800119698 | Sum of GTIs [s] |
| caldbver | 4.4.9 | | ontime3 | 8028.800119698 | Sum of GTIs [s] |
| date | 2012-05-29T01:50:23 | Date and time of file creation | l1events | 44296 | Number of level 1 events |
| revision | 2 | Processing version of data | | | |

2.1.4 Events

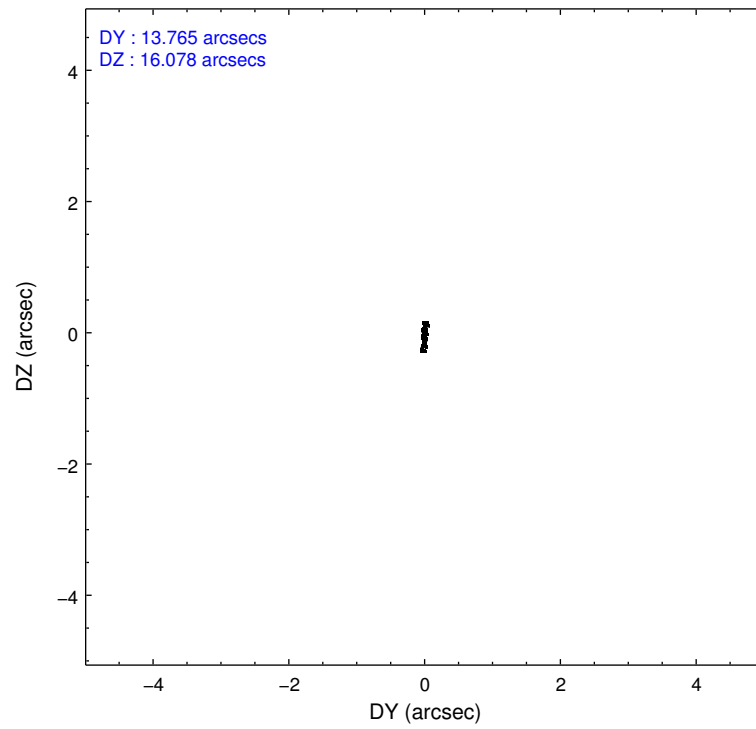
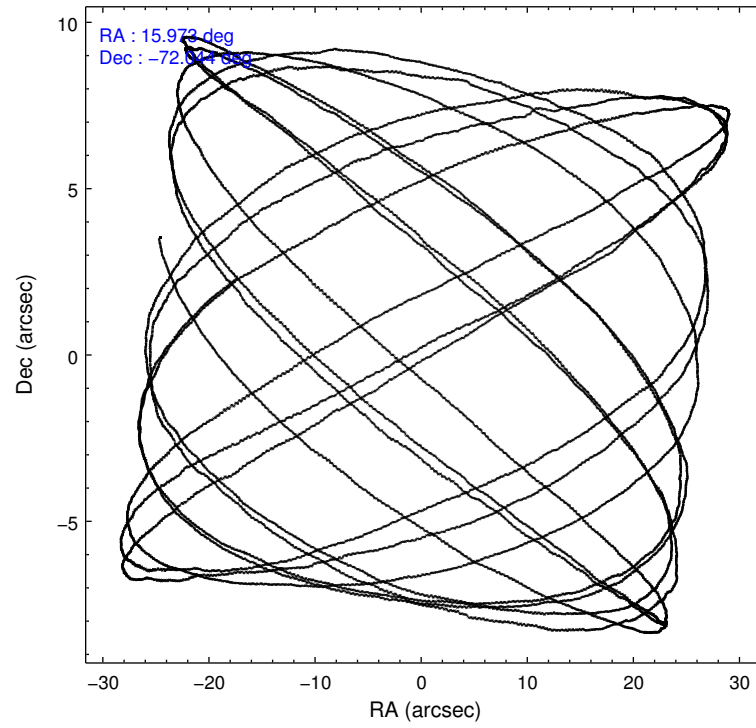
| | |
|-----------------|--------------|
| | ccd 3 |
| level 1 events | 44296 |
| rejected events | 17767 |
| rejected % | 40% |

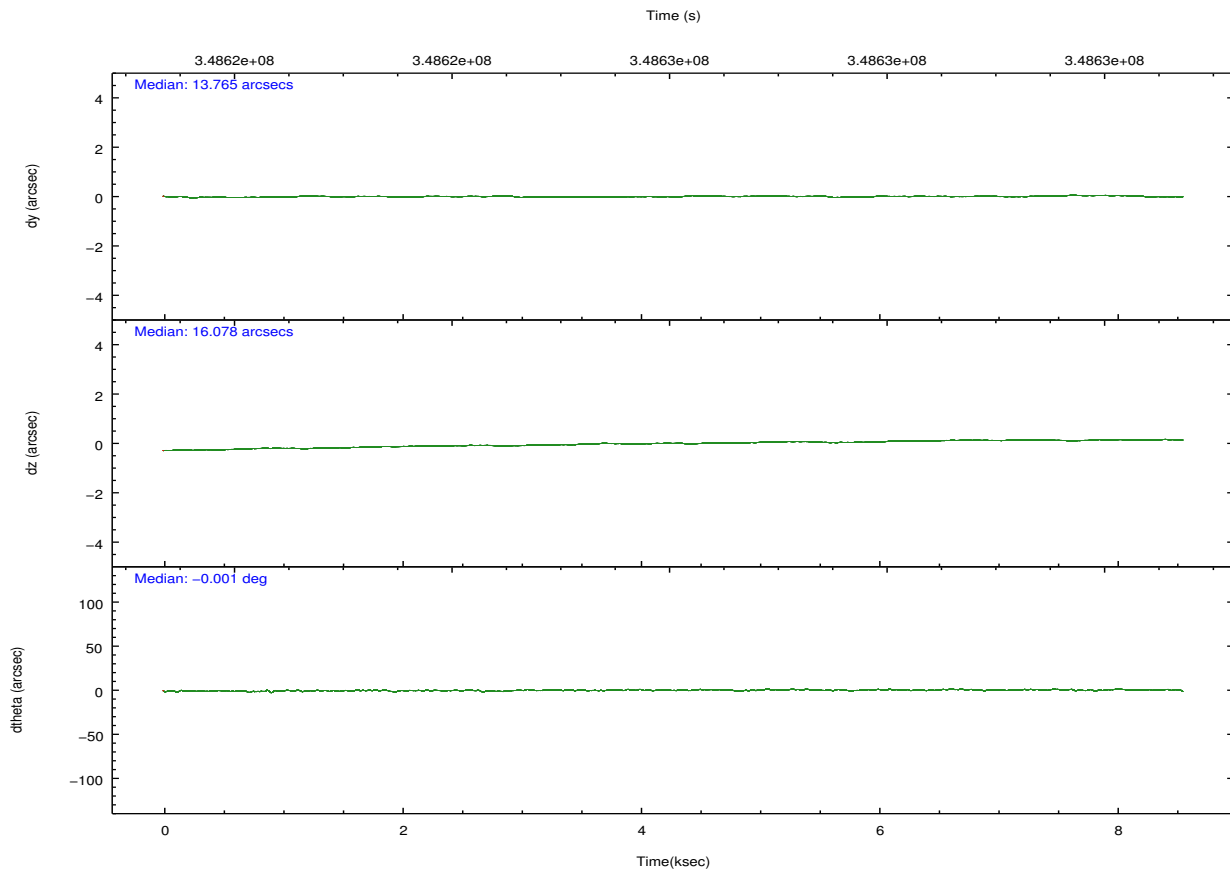
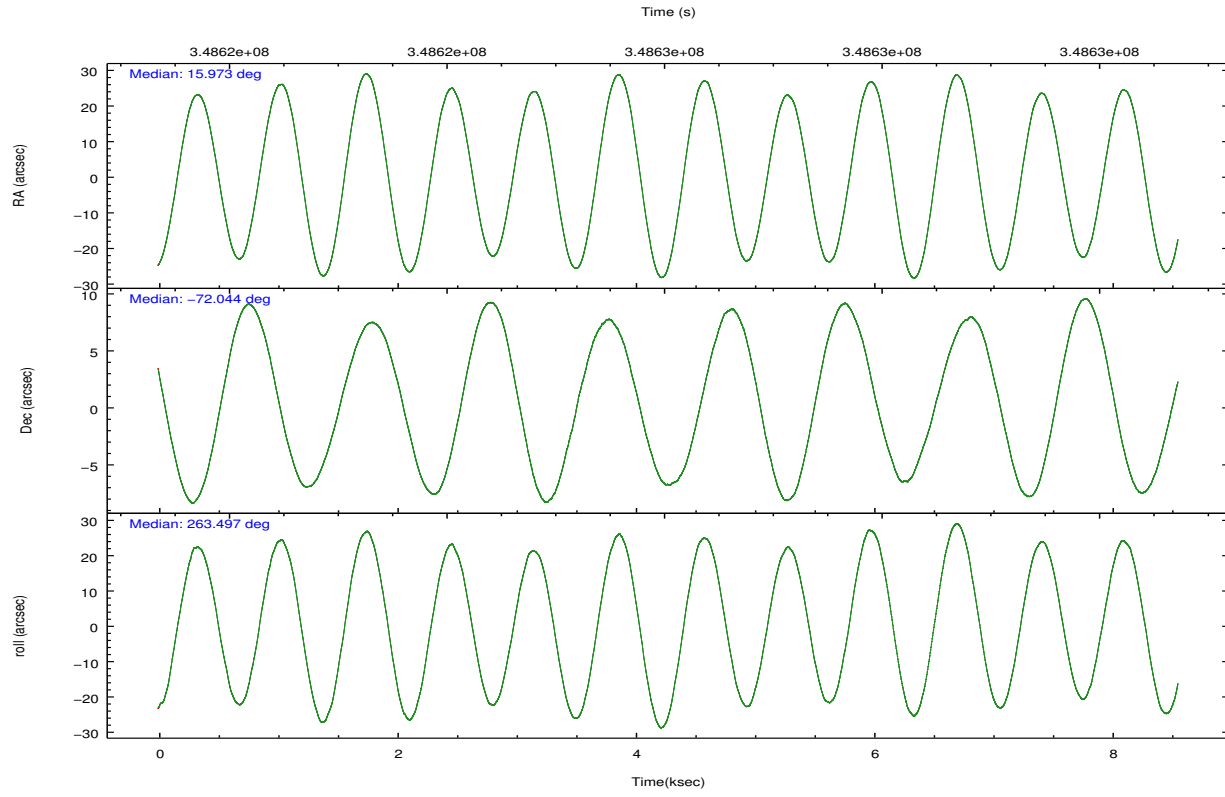
| | |
|----------------|--------------|
| | ccd 3 |
| grade 0 events | 22760 |
| | 51% |
| grade 1 events | 70 |
| | 0% |
| grade 2 events | 1908 |
| | 4% |
| grade 3 events | 679 |
| | 1% |
| grade 4 events | 717 |
| | 1% |
| grade 5 events | 634 |
| | 1% |
| grade 6 events | 471 |
| | 1% |
| grade 7 events | 17057 |
| | 38% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-3 | ACIS-3 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | VFAINT | VFAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 15.936948 | 15.97268823714238 | Subarray requested | CUSTOM | 1/4 |
| [deg] Pointing Dec | -72.018300 | -72.04354841595362 | Subarray start row | 768 | 768 |
| [deg] Pointing Roll | 263.259723 | 263.5024022246625 | Subarray row count | 256 | 256 |
| [s] Window start time (MET) | 344476865.184000 | 344476865.184000 | Alternating exposures requested | N | N |
| [s] Window stop time (MET) | 357436866.184000 | 357436866.184000 | [s] Primary exposure time | 0.000000 | 0.8 |
| [mm] SIM focus pos | -0.782348 | -0.7809083437167272 | | | |
| [mm] SIM defocus | 0 | 0.001439871863259334 | | | |
| [mm] SIM translation stage pos | -233.592463 | -233.5874344608287 | | | |
| [mm] SIM translation stage offset | 0 | -0.005018542100998502 | | | |
| [s] Observation start time (MET) | 348622305.184000 | 348621559.89521 | | | |
| Observation start date | 2009-01-17T23:30:39 | 2009-01-17T23:19:19 | | | |
| [s] Observation end time (MET) | 348630305.184000 | 348630540.94565 | | | |
| Observation end date | 2009-01-18T01:43:59 | 2009-01-18T01:49:00 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



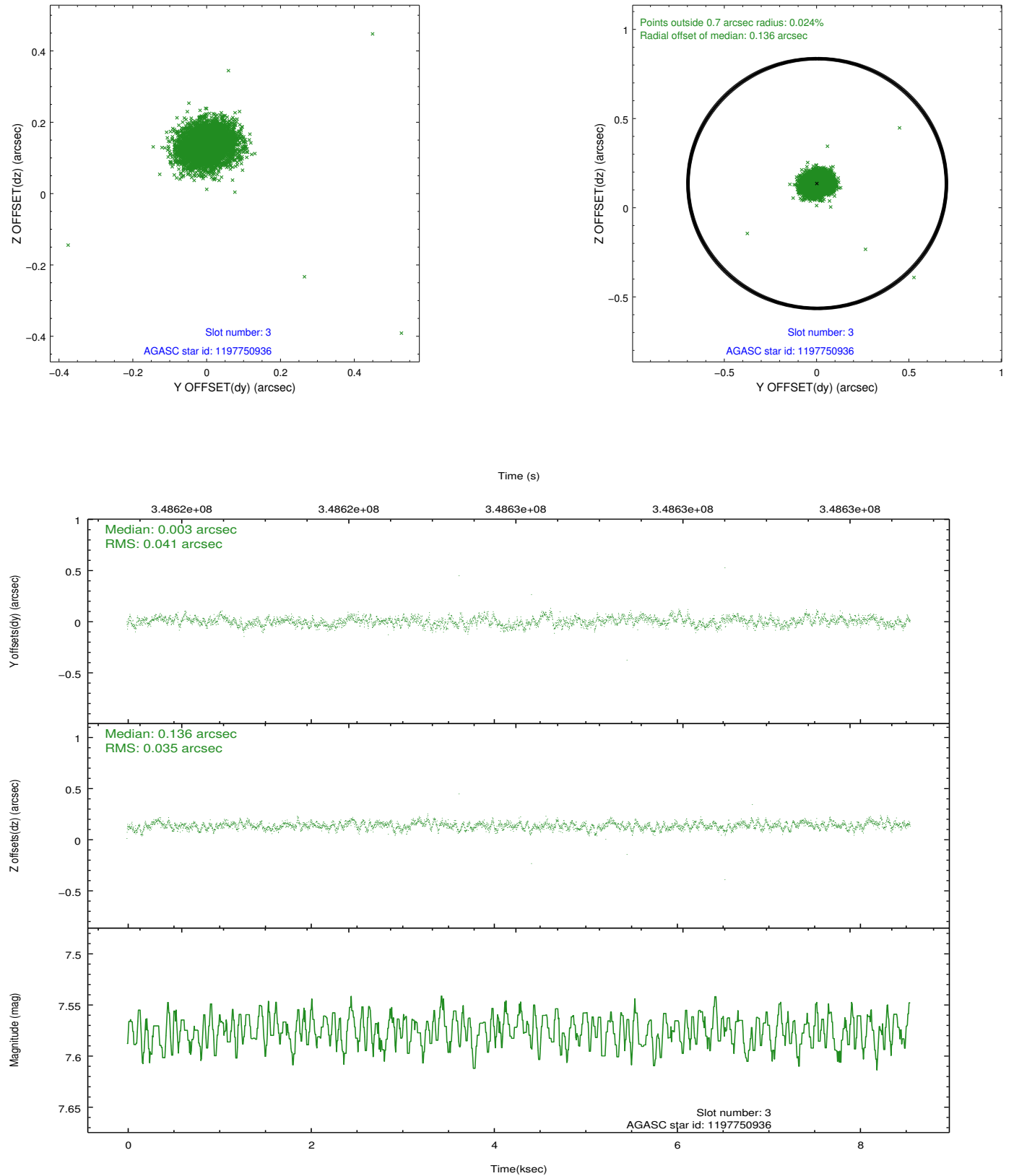


Slot Statistics

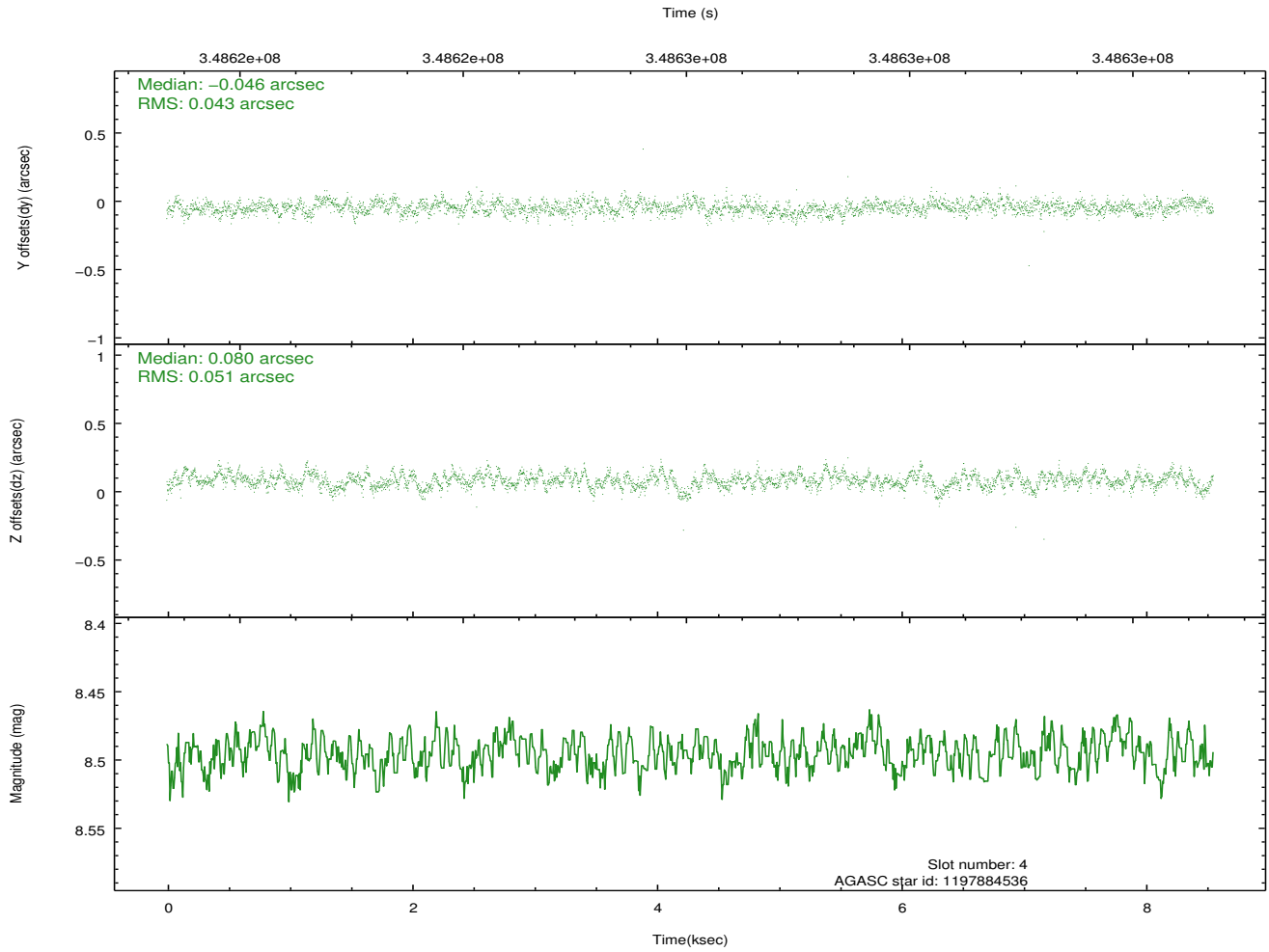
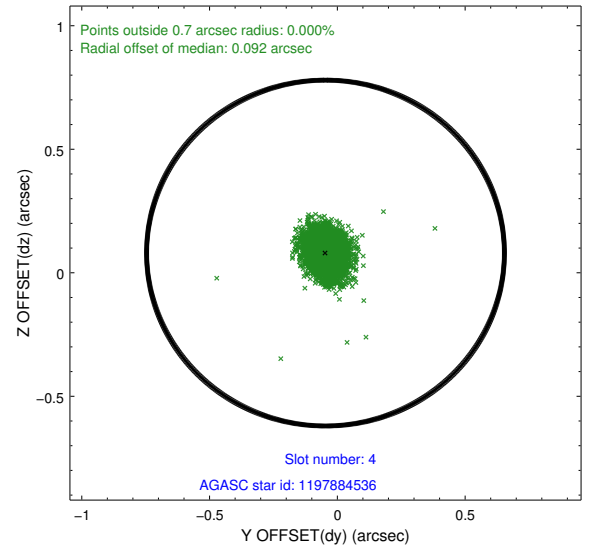
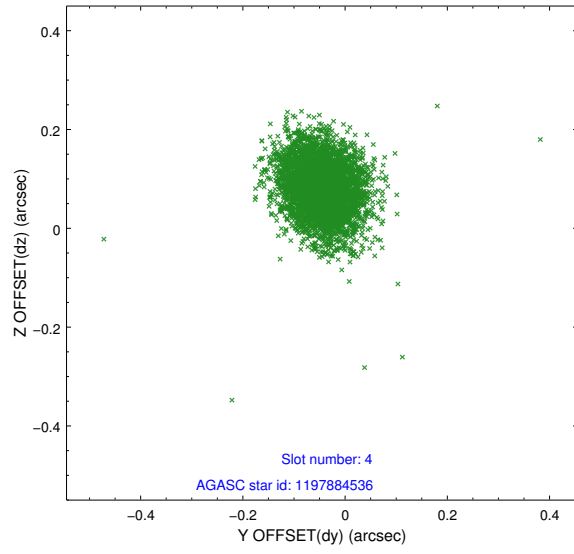
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------------|------|-------|--------|--------|-------|-------|-----------|------------|----------|---------|
| 0 | FID | ACIS-I-1 | 7.00 | 2088 | 0.067 | -0.046 | 0.008 | 0.015 | 0.000000 | 0.000000 | 925.78 | -839.74 |
| 1 | FID | ACIS-I-5 | 6.99 | 2088 | -0.230 | 0.062 | 0.007 | 0.011 | 0.000000 | 0.000000 | -1822.24 | 1057.56 |
| 2 | FID | ACIS-I-6 | 7.00 | 2088 | 0.071 | 0.054 | 0.008 | 0.013 | 0.000000 | 0.000000 | 390.66 | 1702.77 |
| 3 | GUIDE | 1197750936 | 7.57 | 4175 | 0.003 | 0.136 | 0.055 | 0.089 | 15.387940 | -71.549550 | -1599.24 | -818.65 |
| 4 | GUIDE | 1197884536 | 8.50 | 4173 | -0.046 | 0.080 | 0.070 | 0.114 | 17.160729 | -71.835289 | -802.27 | 1288.12 |
| 5 | GUIDE | 1197884712 | 8.30 | 4172 | 0.113 | -0.113 | 0.057 | 0.094 | 16.087398 | -72.252690 | 818.66 | 263.47 |
| 6 | GUIDE | 1197885328 | 7.23 | 4175 | 0.009 | -0.136 | 0.060 | 0.096 | 16.283090 | -71.733943 | -1061.77 | 268.70 |
| 7 | GUIDE | 1198283128 | 7.75 | 4174 | -0.081 | 0.034 | 0.056 | 0.089 | 17.272580 | -72.642428 | 2078.26 | 1690.53 |

2.4 Star Slots

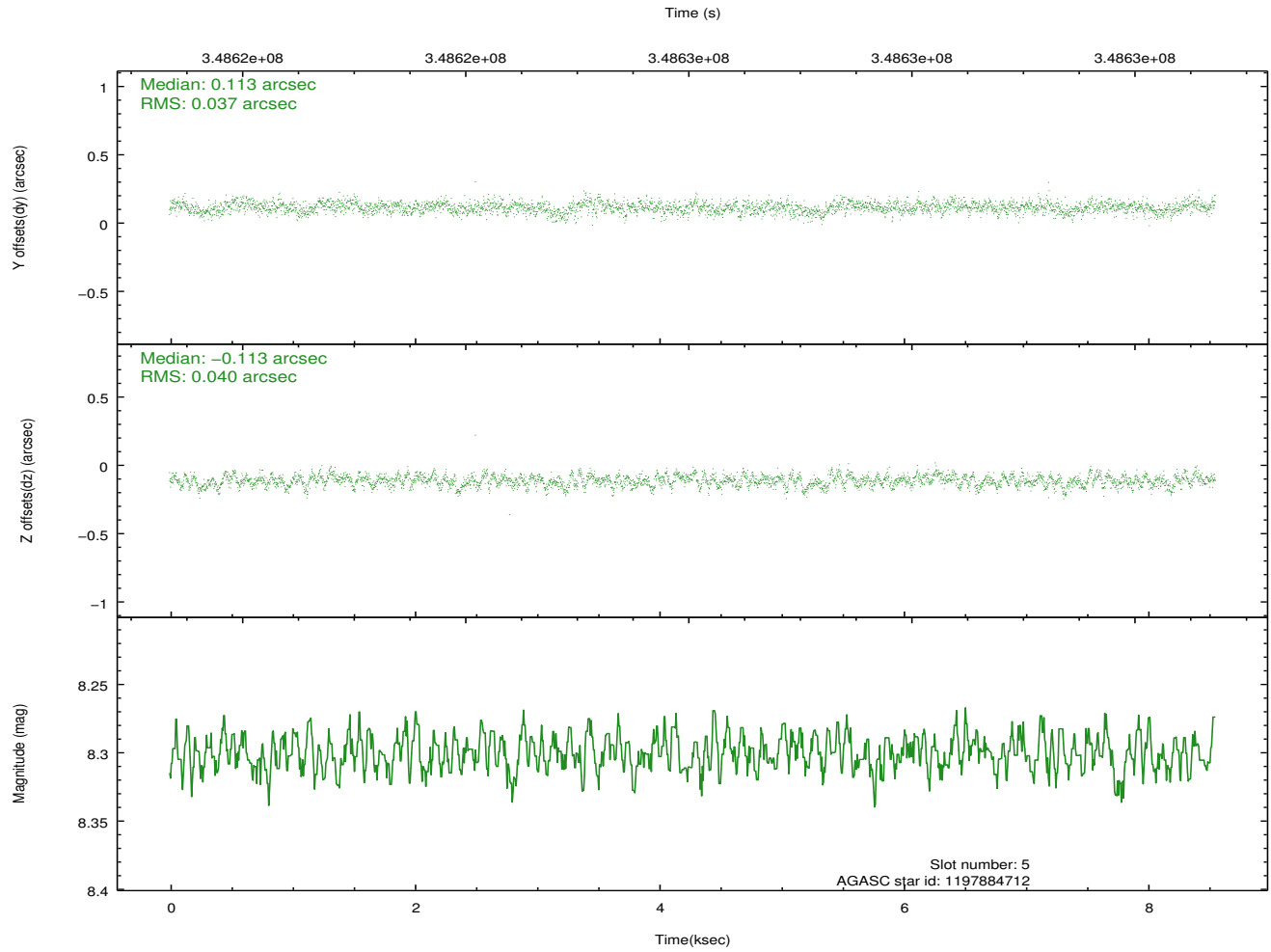
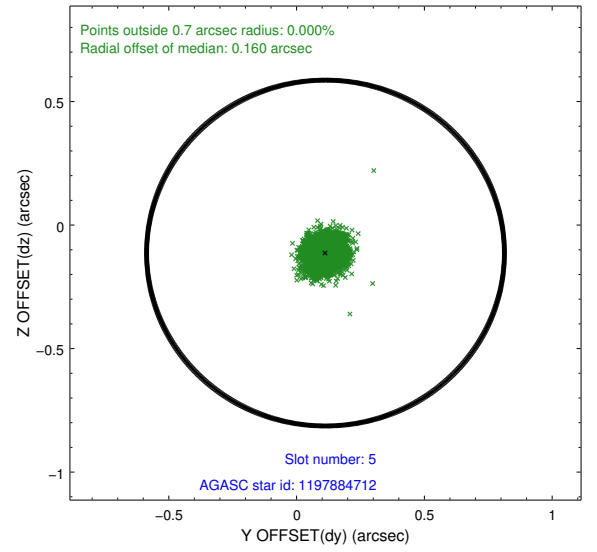
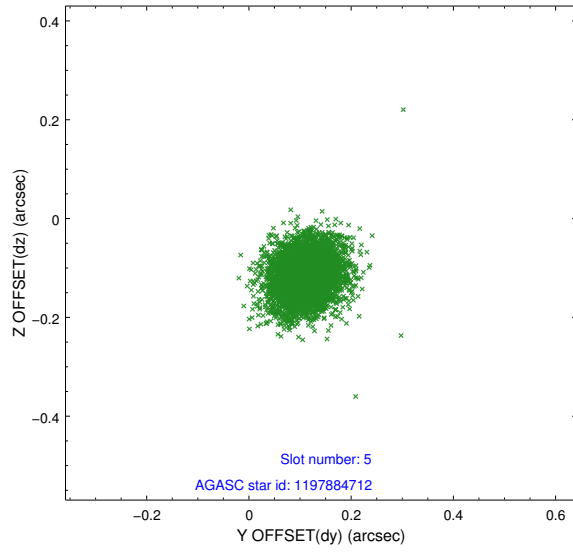
2.4.1 Slot 3



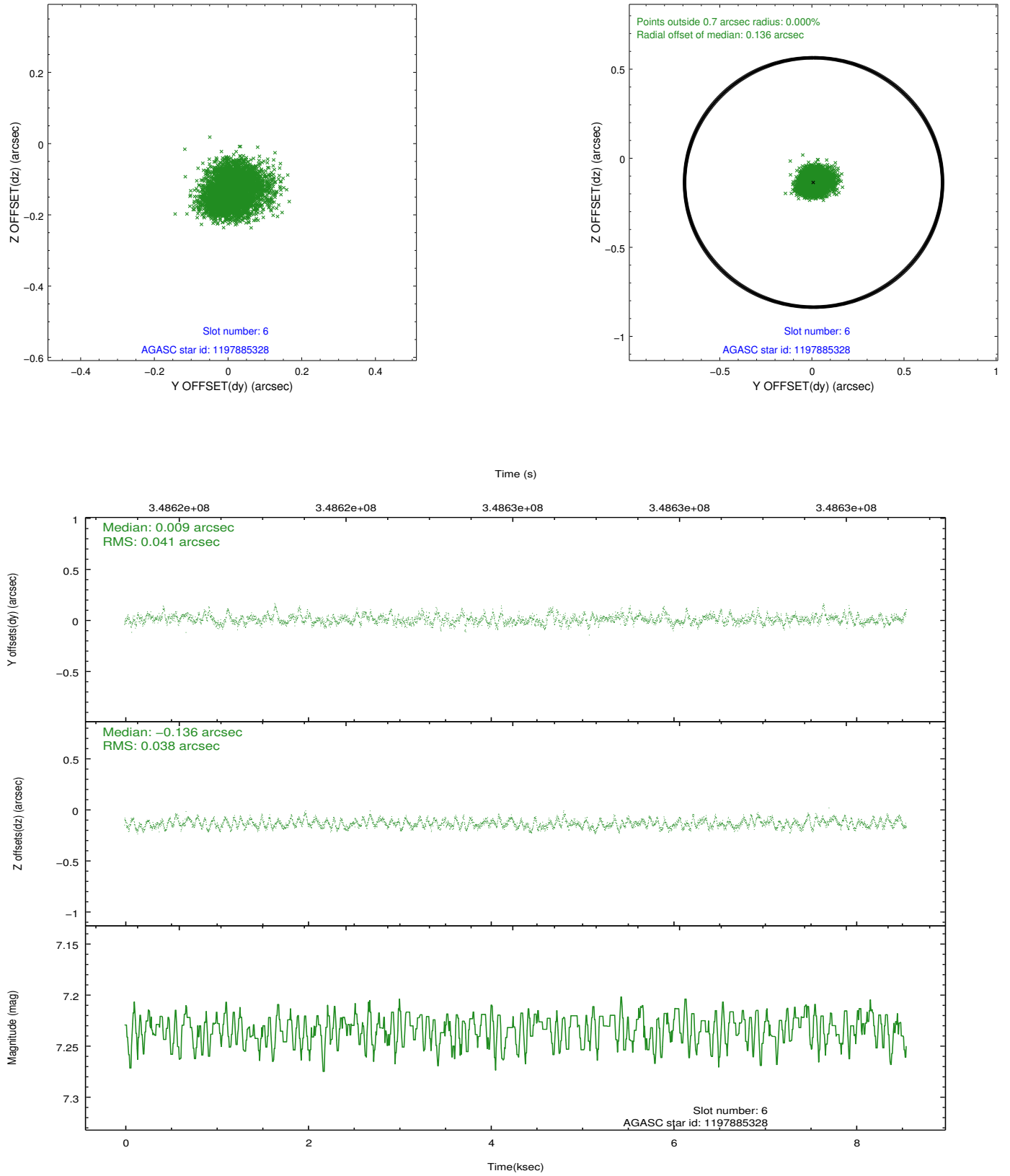
2.4.2 Slot 4



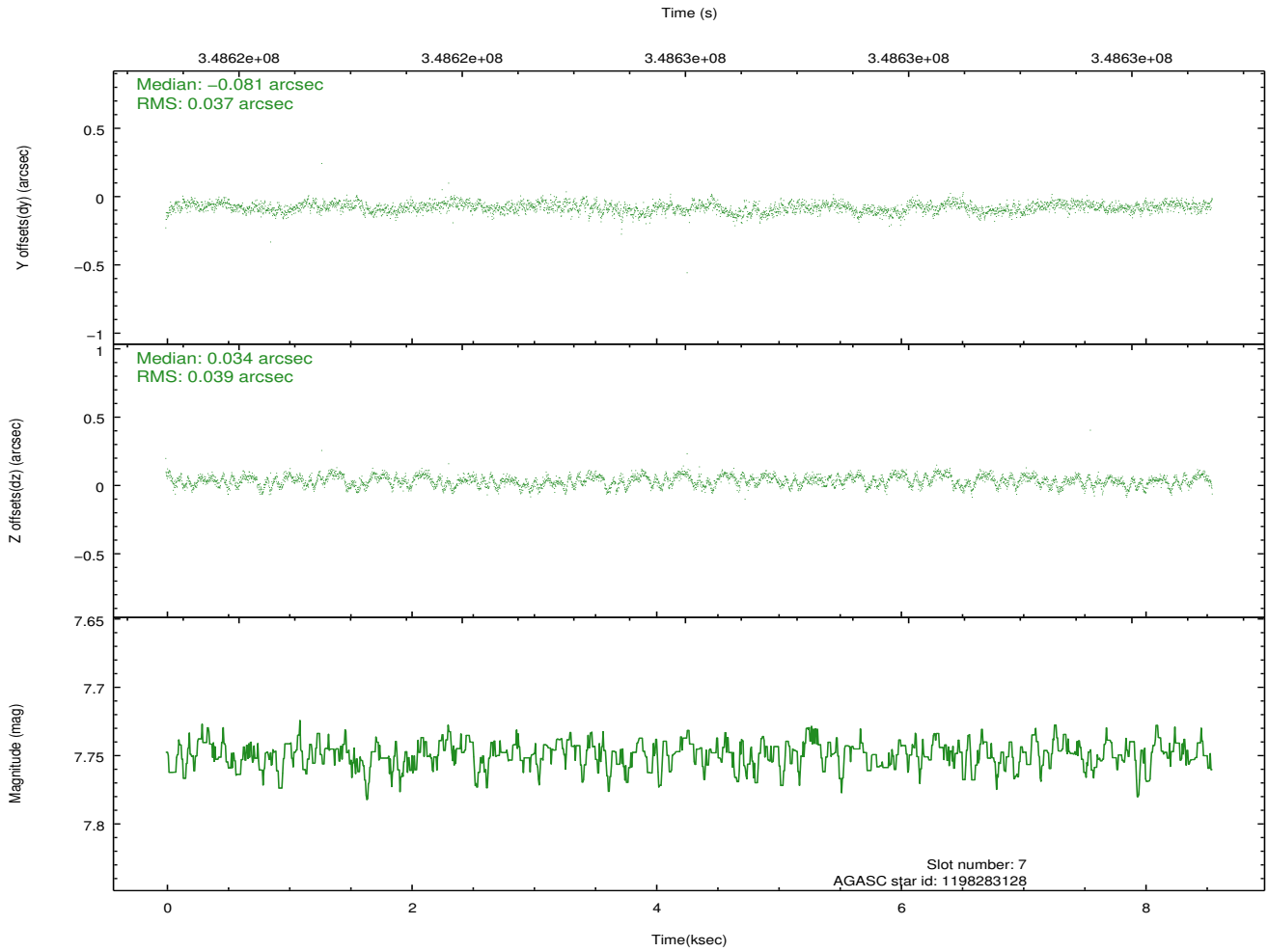
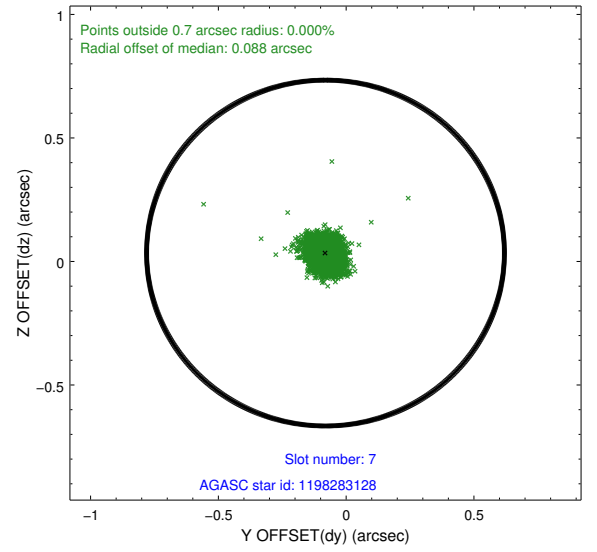
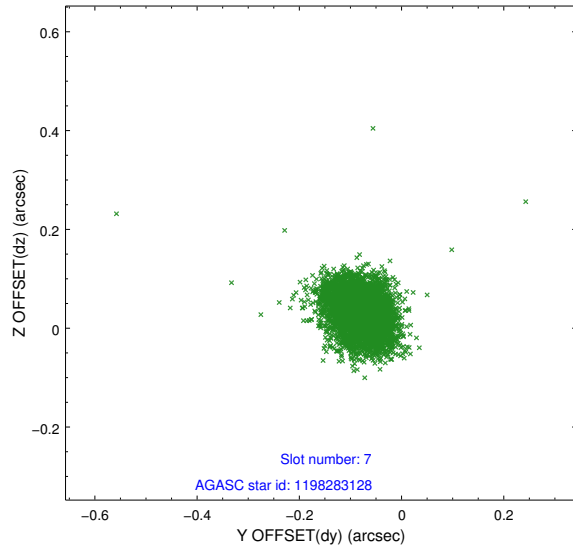
2.4.3 Slot 5



2.4.4 Slot 6

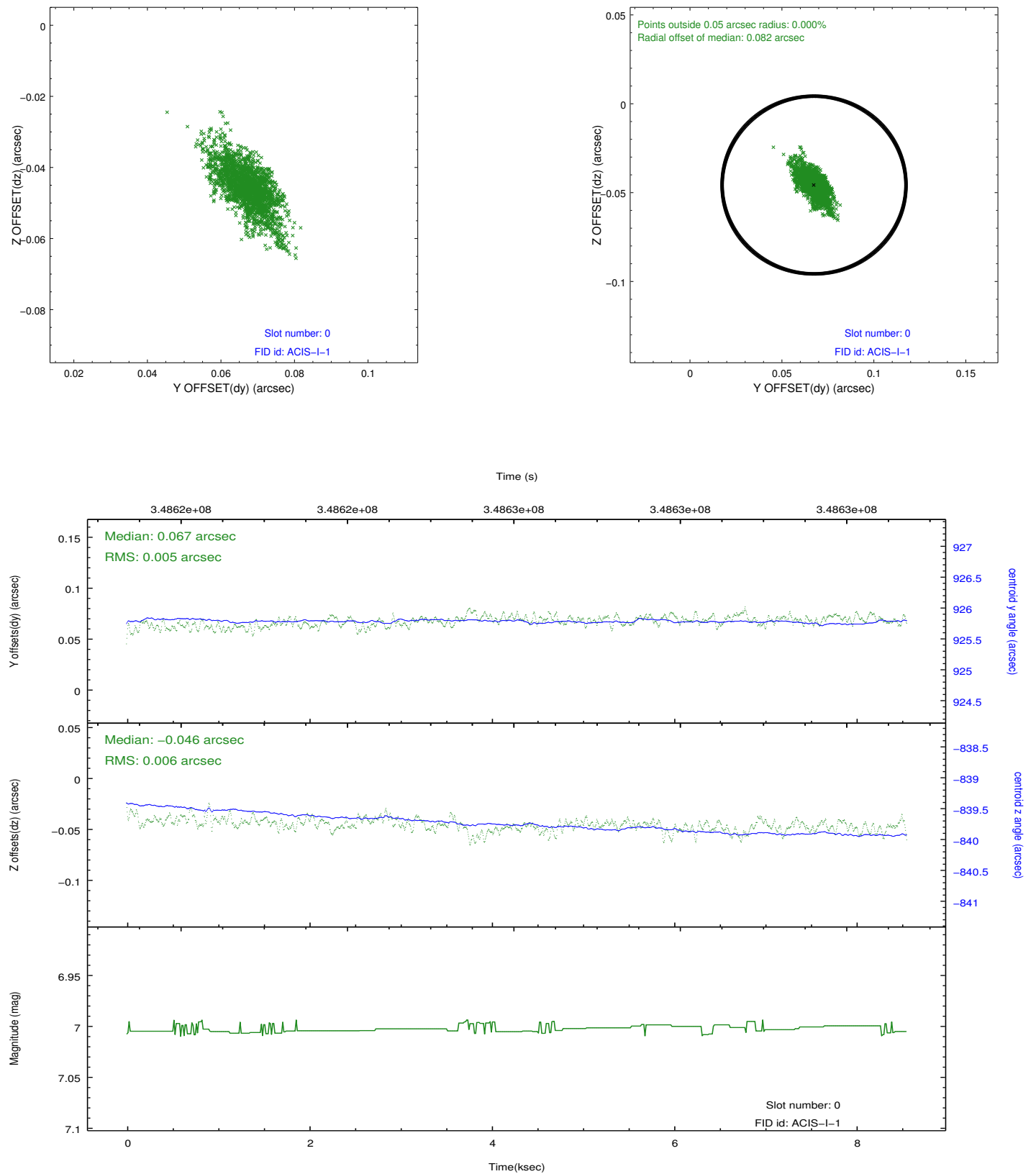


2.4.5 Slot 7

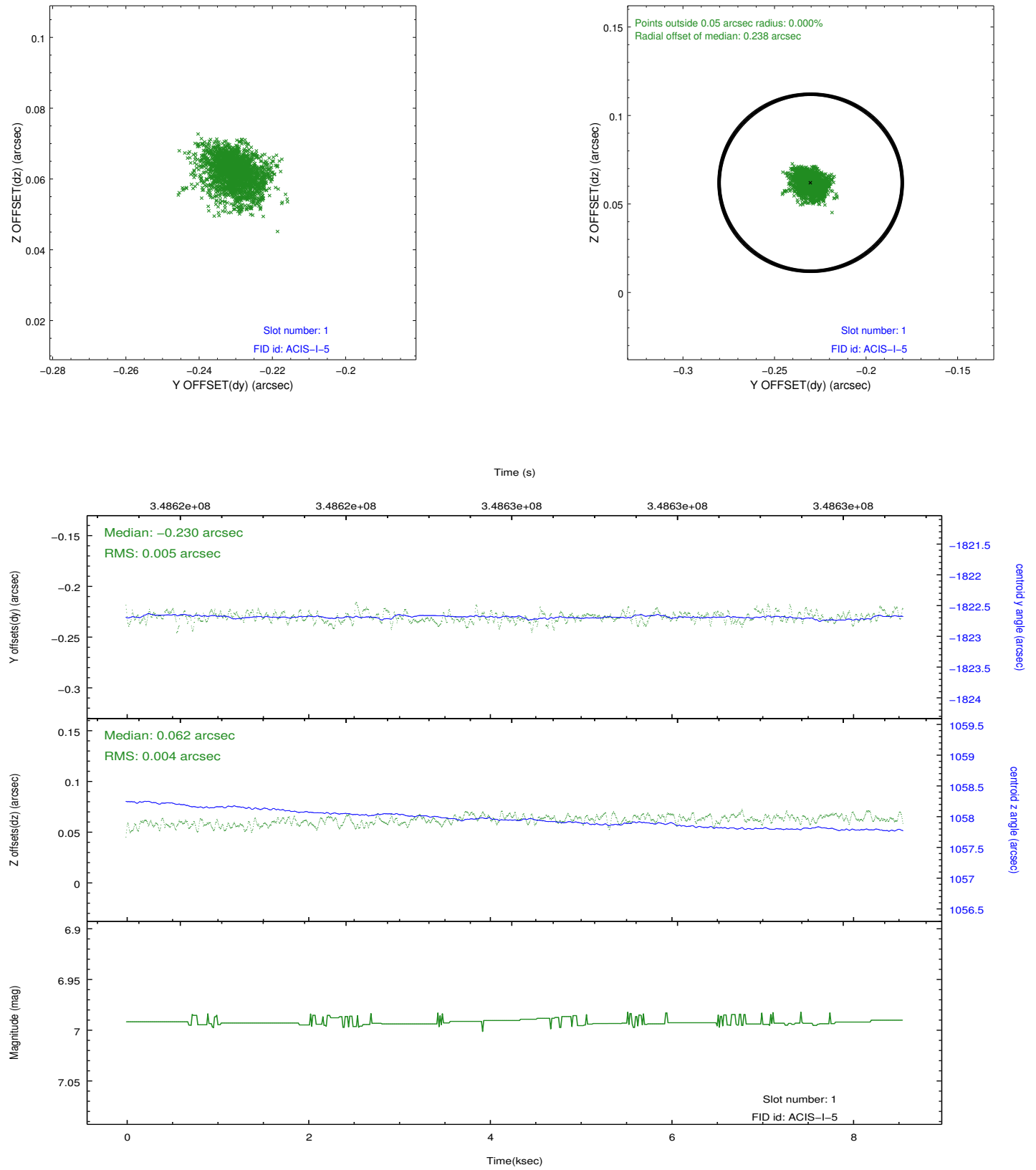


2.5 FID Slots

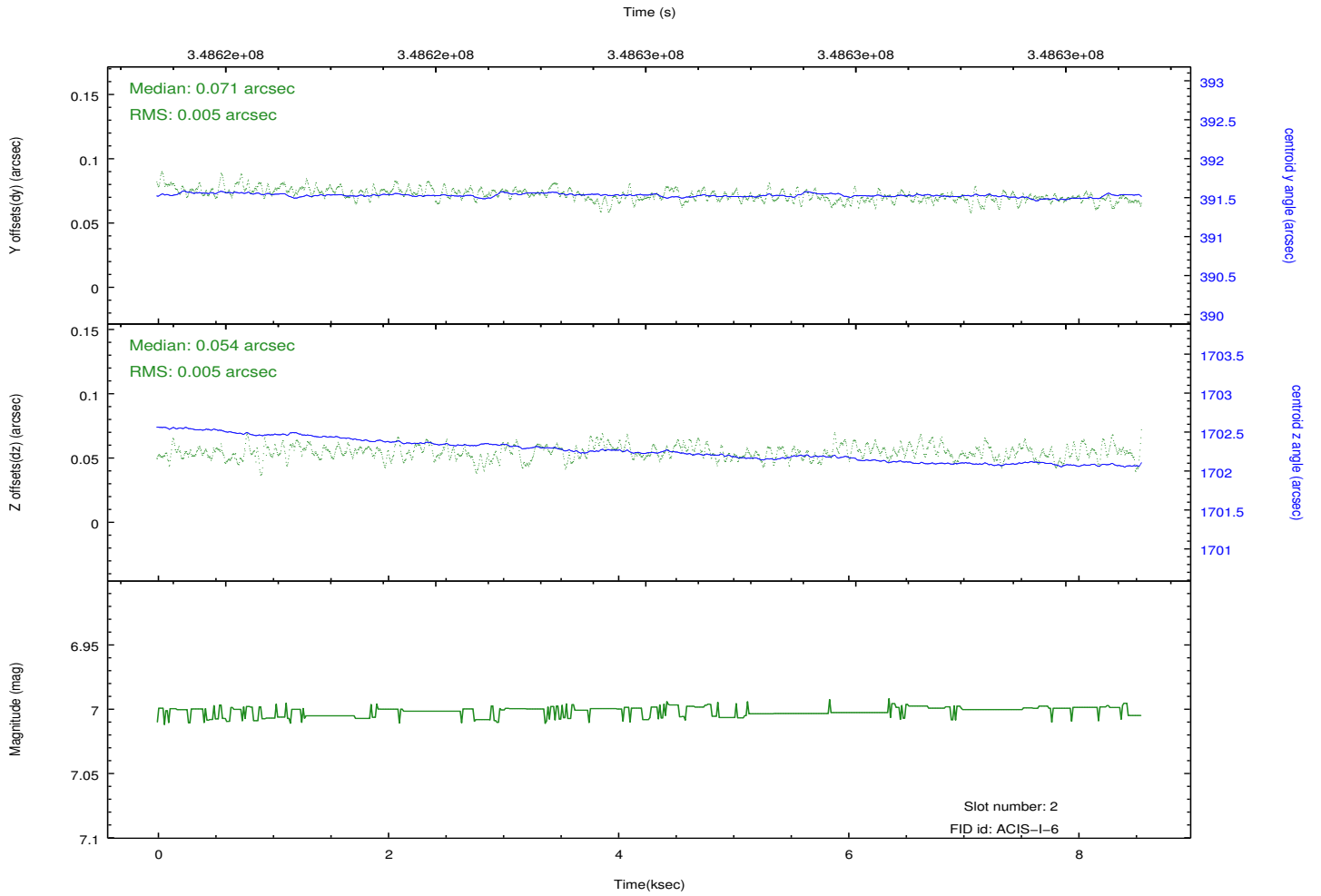
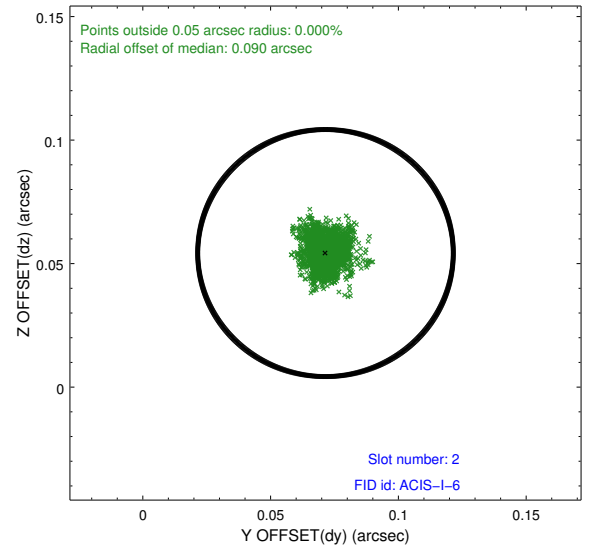
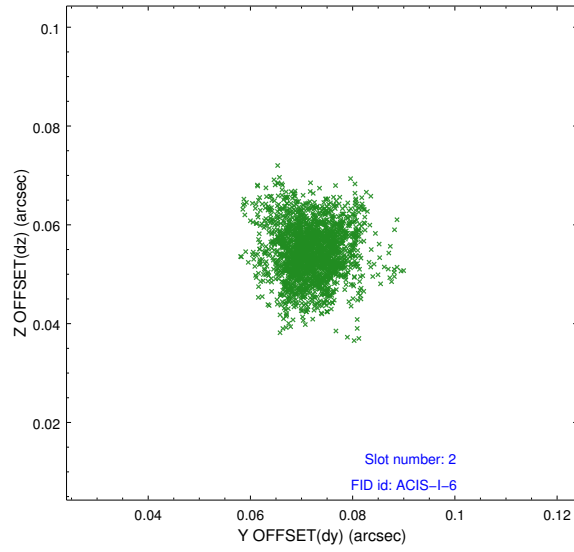
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2012.06.04 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.02880011 |

A.2 Comments

Window preference met.